SEARCH CARD

Class 222, DISPENSING

CLASS DEFINITIONS

EXPLANATION OF MAIN CLASS DEFINITIONS AND NOTES:

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DEFINITIONS AND NOTES

1. GENERAL STATEMENT OF CLASS SUBJECT MATTER -

This is the generic class for processes and apparatus for dispensing material, and takes all such subject matter that must be classified on such basis and not provided for in other main classes.

2. GENERAL STATEMENT OF CLASS SUBJECT MATTER (Cont'd.) -

This class is not limited as to the character of the materials dispensed which may be in any physical state, i. e. , it may be in a gas, vapor, liquid, viscous, paste-like or solid state and if in a self sustaining state may have any form or shape.

3. GENERAL LINE WITH OTHER CLASSES -

Dispensers are found in all classes dealing with the manufacture, treatment or handling of fluent materials, and particularly in classes having feeding or material handling subclasses. In general, the assignment of patents to the manufacturing and material treating classes has been on the basis of the non-dispensing operation, when the means or steps for performing the non-dispensing operation are claimed. When the means or steps for performing the non-dispensing operation are not claimed, assignment has been to the class taking the disclosed operation when material feeding subclasses occur in such art class and are designated and defined to receive such patents. Classes not having special subclasses of this type will not take devices falling in the scope of Class 222, when not claimed in combination with, or especially adapted for the machines or work of the art class, unless such class has a large body of art on dispensing, per se.

Patents having claims to a dispenser classifiable in this class, and also claims to a method of, or apparatus for, making such dispenser, are classified in this class, in the subclass appropriate to the dispenser claimed and cross-referenced to the appropriate manufacturing class.

4. GAS OR VAPOR DISPENSERS -

Dispensing of material in a gas or vapor state is provided for in subclass 3+. These subclasses were formed on the basis of apparatus disclosed solely for dispensing a gas or vapor as the proximate purpose of the apparatus and have, in subclass 4, the combination of such dispensing means with means to additionally dispense materials other than gases or vapors.

Many devices in this class use gas, vapor, or liquid materials to contact other materials to cause dispensing of such other materials, or to operate motors or followers to cause dispensing of other materials, and some devices in this class utilize gas or vapor to agitate another material while the latter is being dispensed. Such combinations are not in subclass 3+, but are in other following subclasses appropriate to the invention claimed. Since most of these devices involve the movement of gases or vapors from one place to another in the organization, significant gas dispensing apparatus is often disclosed and claimed as a part of the liquid or solid dispensing combination. Where the combination is claimed the gas dispensing subcombination is cross-referenced to subclass 3+. It is classified as an original in subclass 3+ when the gas or vapor dispensing subcombination only is claimed.

Most dispensers have vents for the chambers from which materials are dispensed, either to permit escape of gas or vapor as the chamber fills or to admit the same as the chamber empties. Vents were not classified in this class as dispensers.

For the various combinations within the class having a vent, or which utilize a gas, vapor, or liquid in various combinations as above set forth, see the notes to subclass 3.

For gas or vapor dispensers per se, and for various combinations having such subject matter as a part thereof provided for in other classes:

SEARCH CLASS:

9, Boats, Buoys and Aquatic Devices, subclass 316+ for self-inflating body supporting buoyant devices for sustaining a user partially immersed in liquid.

15, Brushing, Scrubbing and General Cleaning, subclass 300+ for air blast and/or suction cleaning devices.

19, Textiles, Fiber Preparation, subclass 9 for devices utilizing an air blast to assist in liberation of fibers from plants, and subclass 205 for pneumatic feeding of fibers.

21, Preserving, Disinfecting, and Sterilizing, subclass 108+, for miscellaneous fume generators.

23, Chemistry, for inorganic chemical processes and for miscellaneous chemical apparatus, subclass 2+ having gas separation and purification involving chemical reaction, subclasses 232+ and 254+, having analytical and analytical control methods and apparatus for gas, subclass 281+ having gas generators.

34, Drying and Gas or Vapor Contact With Solids, for processes and apparatus for contacting solids with gases or vapors for drying or other purposes.

38, Textiles, Ironing or Smoothing, subclasses 3+, 14+ and 77+, for moistening combinations using vapors.

40, Card, Picture and Sign Exhibiting, subclass 213, for skywriting using smoke or luminous material.

43, Fishing, Trapping and Vermin Destroying, subclass 125+, for vermin destroying fumigators.

46, Amusement Devices, Toys, subclasses 9, 44, 53+, 87+ and 178+, for smoking, pneumatic, air actuated, or inflatable toys.

48, Gas, Heating and Illuminating, particularly subclasses 174+, 180+ and 190+, for gas holding, mixing, and distributing means

51, Abrading, subclass 8+ for sand blast machines.

55, Gas Separation, appropriate subclasses, for gas separators having special flow connections, valves, pumps, separated gas outflow control means and residue flow control.

62, Refrigeration, appropriate subclasses for processes and apparatus involving steps or means specialized to refrigeration processes and apparatus, solidified or liquefied gas product manufacturing and stored liquefied or solidified gas handling, particularly subclass 45+ for processes and apparatus for the handling of liquefied gas involving more than that required for any gas or liquid under pressure, and subclass 389+ for a withdrawable liquid cooler having specific cooling means.

68, Textiles, Fluid Treating Apparatus, subclass 5+, for apparatus for applying a gas, steam or mist to textiles to treat the same, subclass 20, for combinations with a drier in which a gas contacts the textiles for drying purposes and subclasses 183 and 207, for apparatus in which a gas or vapor is supplied to the treating liquid.

102, Ammunition and Explosive Devices, subclasses 6, 39, 60, 65, 66, 87 and 90, for such devices for emitting gases or smoke for tracing or other purposes.

109, Safes, Bank Protection and Related Devices, subclasses 20 and 29+, for combinations involving releasing, generating, or distributing gases or vapors.

110, Furnaces, appropriate subclasses, for combinations with means for feeding gases or vapors to the fuel or for cooling purposes.

111, Planting, subclass 6+, for process and apparatus for impregnating the ground with a gas, vapor or liquid.

128, Surgery, subclass 184, for appliances for applying to or injecting into the body medicated gas, subclass 185+, for inhalers and subclass 203 having gas holder combinations.

137, Fluid Handling, which is the generic class for gas distribution; see particularly subclass 154+ for diverse fluid containing pressure systems, especially subclass 206+ for gas pressure storage over or displacement of liquid; 223+ for inflatable article, e.g., tire, filling chuck and/or stem; subclass 505+ for fluid pressure regulators per se, this class (222) taking combinations of such regulators with significantly included supply containers; and subclass 624.11+, for a fluid distribution system including a programmer or timer.

141, Fluent Material Handling, With Receiver or Receiver Coacting Means, subclass 4+ for filling with gas and/or evacuating, including tire inflation with gas, and subclass 38 for filling tires with non-gaseous materials.

152, Resilient Tires and Wheels, subclass 415+, for resilient tire inflating devices combined with vehicle or wheel structure for inflating means more or less permanently associated with an individual tire or for means for inflating one tire from another.

169, Fire-Extinguishers, subclass 11+, for those using a gaseous fire-extinguishing agent.

201, Distillation: Processes, Thermolytic, subclass 39, for a thermolytic distillation process including quenching the char with an inert gas.

202, Distillation: Apparatus, subclass 227, for apparatus for cooling residues with gas.

204, Chemistry, Electrical and Wave Energy, subclasses 246, 256, 258, 265, 270 and 277, for cells having means to feed gas thereto.

206, Special Receptacles and Packages, subclass .6+, for gas storage.

209, Classifying, Separating and Assorting Solids, particularly subclasses 19-37, 133+, for gaseous suspension type and 466-477 and 502, for stratifiers with gas treatment means.

220, Metallic Receptacles, subclass 3, for high-pressure gas holders.

223, Apparel Apparatus, subclass 43, for devices for turning garments, bags, and tubular articles inside out by applying fluids under pressure thereto, and subclass 67, for inflatable forms.

230, Gas Pumps and Fans, for subcombination of pump structure and control.

244, Aeronautics, subclasses 98 and 99, for arrangements for inflating and releasing buoyant gas from lighter-than-air craft.

259, Agitating, subclasses 147 and 151, for processes and apparatus for incorporating gas in a mortar mix, or utilizing gas for mixing, discharging, or conveying.

261, Gas and Liquid Contact Apparatus, for dispensing organizations combined with gas and liquid contact means where the gas pressure discharge assistant means is arranged to secure intimate contact and mixing of the gas pressure medium and the liquid being dispensed. Such arrangements include (1) projection or positioning of an additional gas pressure fluid inlet below the surface of a liquid for contact purposes, (2) particular configuration or perforation of a gas inlet to secure more intimate contact, and (3) provision of mixing means to insure more intimate contact. Dispensing devices disclosed as contact devices (as aerators, carbonators, etc.) are classified in Class 222 unless contact means of the nature described in the statement of the line hereinabove are claimed.

302, Conveyers-Fluid Current, for feeding gas in pneumatic conveyer combinations.

5. ARTICLE DISPENSING

Article dispensers are classified in Class 221, Article Dispensing and the definitions and Notes to that class should be consulted for the statements of the lines of that class with this class and with other related article dispensing and feeding classes, including strip feeding.

Dispensers capable of use with either articles or fluent material of granular, plastic or liquid nature, and claimed generically are classified in Class 222, that class being generic to the concept of the two classes (221 and 222).

6. VOLUME OR RATE OF FLOW METERS, RECORDERS, REGISTERS -

This class has volume or rate of flow meters combined with means for predetermining the total quantity dispensed in subclass 14+; volume or rate of flow meters combined with signals, indicators, registers or recorders specialized for use with repeated dispensing operations, as registers with zero-setting or price and volume indicating combinations in subclass 23+; volume or rate of flow meters combined with structure (in addition to that necessary for an operative volume or rate of flow meter) limited to dispensing in subclasses 52-73.

The dispensing features, in addition to meter structure, which, in general, determine classification in class 222, are (1) meters having predetermined or preset cut-offs, (2) meters of the expansible chamber type having ingress or egress valves which are manually thrown, (3) meters having manual flow termination, (4) meters combined with storage tank features where the stored material is dispensed through the meter, (5) meters with nozzles, spouts, or equivalent dispensing outlets, and (6) meters combined with a pump significantly claimed.

For related subject matter -
SEARCH CLASS-

73, Measuring and Testing, subclass 194+, for volume or rate of flow meters, per se. The mere naming of a pump supply does not exclude such meters from class 73; such meters are in the class both when the registering means are and are not claimed. Class 222 has dispensing devices which determine a volume dispensed which do not repeat the operation as a result of, or under the control of, the completion of the preceding operation, see particularly class 222, subclasses 282+, for those with volume varying means, 344+, for movable or conveyer type trap chambers, and 425+, for stationary trap chambers with cut-offs, these various types combined with a recorder, register, indicator, signal, or exhibitor being in subclass 23+.

235, Registers for register structure where no significant dispensing features are claimed, even though a dispenser or meter is named as operating the register.

346, Recorders, for recorder structure, where no significant dispensing features are claimed, even though a dispenser or meter is named as operating the recorder.

7. DRIP LEAKAGE OR WASTE CATCHERS

Devices auxiliary to dispensing organizations for catching drip or waste material are in this class, including receivers or supports for receivers to be placed to collect material overflowing or not received by the intended receiver and also other material escaping from the desired discharge path. For such devices, see subclass 108+, and for related art:

SEARCH CLASS:

15, Brushing, Scrubbing and General Cleaning, subclass 248, for drip cups and shields.

34, Drying and Gas or Vapor Contact with Solids, subclass 85 for such apparatus combined with means to collect escaping material.

52, Static Structures, e.g., Buildings, subclass 11+ for building cover with an eave, or valley gutter, subclass 302+ for building structure or component with a fluid handling feature open to the ambient, and subclass 553 for a subsurface drainage device related to a lapped multiplanar or strip covered surfacing.

56, Harvesters, subclass 207 for harvesters combined with means to catch loosened (shelled out) grain that would otherwise be lost.

67, Illuminating Burners, subclass 84 for illuminating burner fonts for catching drip or for returning drip to the font.

68, Textiles, Fluid Treating Apparatus, subclass 208 for drains and overflows for such apparatus.

104, Railways, subclass 133, for drip pans, nets, et cetera, for catching liquid, dirt, or articles that might fall from an elevated railway.

109, Safes, Bank Protection and Related Devices, subclass 28, for drains or sumps associated with containers to remove explosives to prevent their successful use.

114, Ships, subclass 182, for scuppers i.e., arrangements of passages or holes so that water may drain from decks.

118, Coating Apparatus, subclass 504+, for devices used by painters to protect one of two adjacent surfaces while the other is being coated.

126, Stoves and Furnaces, subclass 51, for devices for oil drip or overflow catching for oil burning cook stoves.

134, Cleaning and Liquid Contact With Solids, particularly subclasses 43, 62, 84+ and 135 for drainers in combination with cleaning or liquid contact apparatus.

137, Fluid Handling, subclass 312+ for drip and leakage collecting in fluid handling systems.

141, Fluent Material Handling, With Receiver or Receiver Coacting Means, subclass 86+ for combinations of a filling device and means for catching material overflowing from the receptacle filled, and subclasses 106 and 364 for means supporting inverted supply receptacles upon receivers for draining.

158, Liquid or Gaseous Fuel Burners, subclass 42.3, for oil burners having associated therewith means to catch escaping unburned oil and cut-off oil feed.

184, Lubrication, subclass 106 for drip pans placed beneath a bearing to catch unused oil and either hold it or return it to a reservoir.

210, Liquid Purification or Separation, subclass 248 for separators for that class having a drip, overflow or content draining feature.

214, Material or Article Handling, subclass 300+ for portable receptacle dumpers, i.e., apparatus for engaging and inverting portable receptacles to empty them of their contents.

239, Fluid Sprinkling, Spraying and Diffusing, subclass 120+ for spray fluid systems having means to catch or otherwise dispose of material escaping or leaking from the system through uncontrolled paths or beyond the last point of control.

296, Land Vehicles, Bodies and Tops, subclass 38, for drip pans located between the load and running gear to catch liquid dripping from the load.

302, Conveyers-Fluid Current, subclass 32, for means for discharging from the tube material that flows backwardly by gravity in the tube.

401, Coating Implements with Material Supply, subclass 15, for a hand manipulated coating device with material supply having a splash guard or a drip catcher.

8. COMBINATIONS OF DISPENSER AND INDEPENDENT RECEIVER -

Dispensers under the class definition claimed in combination with either (1) a container or other receiver which is independent of the dispenser organization, i.e., such receiver not being a part of the means necessary to the dispensing operation, or (2) means which perform their function only in connection with such independent receiver.

The combination defined above is common to all apparatus for performing any character of operation on material, from those combinations in which the independent receiver is a mere receptacle to which the dispenser delivers material for filling purposes, to those combinations in which the receiver is a complicated manufacturing or treating apparatus and the dispenser is a feeding device to deliver material to such manufacturing or treating apparatus for operation thereon. Therefore, the great bulk of the patents granted on such combinations will be found in other classes classified on the basis of particular adaptation to deliver to receivers of particular kinds, or on the basis of the particular receiver (including manufacturing or treating apparatus) claimed.

Where the receiver is defined in such broad terms as to fail as a basis of classification (i.e., in broad terms, cover receivers of two or more types sepeately classified), it is classified in this class, or other classification appropriate to the dispenser claimed.

Since the above subject matter occurs primarily in other classes, classification is in this class only when no other class provides for such subject matter. For notes on gas dispensing, see section 4, and for article dispensing, see section 5. The following notes do not attempt to be exhaustive, specifying only those classes that are known to have apparatus closely resembling the apparatus in this class. For such related art, see the following classes and the notes to the definitions thereof.

SEARCH CLASS-

4, Baths, Closets, Sinks, and Spittoons, for such devices having means for dispensing water, disinfectants, and other materials thereto, and for dispensers specially designed for such purposes, flush tanks for closets being in subclass 18+.

15, Brushing, Scrubbing and General Cleaning, for apparatus operating by brushing, beating, scraping, shaking, wiping, shotting, or use of a squeegee in combination with means to dispense cleaning or other materials to such operating devices. The dispenser subcombination for delivering materials to such instrumentalities so that such instrumentalities may operate thereon are in class 222 or other appropriate dispenser classification.

Relative to the cleaning of dispensers: Classes 15 and 134 take cleaning devices of the types provided for in those classes, per se, or in combination with dispensers or fluid flow systems which are so broadly recited as to appear to constitute parts of the cleaning means rather than the articles to be cleaned. Specific dispenser or fluent material handling structures, including such details as to give a basis for classification in Class 222 or in Class 137, combined with means for cleaning such dispensing or handling structures are classified in Class 222, in subclass 148+, or in Class 137, in subclass 237+.

18, Plastics, appropriate classes therein, for apparatus, within the class definition, for shaping, molding or casting, e.g., extrusion of plastic materials. See also Section 14 of this class (222), particularly to the references to Classes 18 and 264 and see the reference to Class 264, in this section, below.

23, Chemistry, subclass 252+, for miscellaneous chemical apparatus.

48, Gas, Heating and Illuminating, for apparatus for feeding materials to acetylene generators, other gas generators and other devices specialized to heating and illuminating gases.

118, Coating Apparatus, specialized to spreading coating materials over surfaces to be coated. The dispenser subcombination (i.e., the means for merely discharging coating materials from a bulk supply) is in Class 222, or other appropriate dispenser classification.

134, Cleaning and Liquid Contact With Solids. See the reference to Class 15 in this group of Search Class Notes for a statement of the line between Classes 15, 134 and 222.

Some liquid cleaning subcombinations involve no more than dispensing a cleaning fluid to the article to be cleaned (as a receiver). Classes 137 and 222 take such devices as fluent material handling or dispensing inventions, but where a cleaning feature (as dissolving of a cleaning material, surging of the cleaning fluid, etc.) is present, classification is in Class 134, in appropriate subclasses thereof.

141, Fluent Material Handling, With Receiver or Receiver Coacting Means, and see the Notes thereto, particularly Sec. I, for a statement of the line with Class 222.

169, Fire-Extinguishers, for apparatus and processes for extinguishing fires.

177, Weighing Scales, subclasses 59 and 60+ for weigh chamber responsive material control. See subclass 77 of Class 222 and the note thereto.

214, Material or Article Handling, and note particularly -

12+ Marine loading and unloading systems
Charging and discharging apparatus
15 Ship
16+ Storehouse
17 Bin or tank
18+ Furnace type
Roadway vehicle loading or unloading
38+ With external cooperating means
500+ Self loading or unloading vehicles

264, Plastic and Non-Metallic Article Shaping or Treating: Processes, appropriate subclasses for processes of molding or shaping plastic materials within the class definition.

291, Track Sanders.

9. PUMPS -

This class has pumps in various combinations with dispensing features. Dispensing features combined with pumps are -

(a) selectively preset volume responsive cut-off means to control the quantity discharged (e.g., those which can be preset to operate through a desired number of cycles), see subclass 14+.

(b) totalizing or other registering means, or recording means, the combination being specialized for repeated operations (as those provided with zero-setting means or combined price and volume devices) see subclass 23+.

(c) position or extent of motion indicators, when other dispensing features are claimed (e.g., as set forth in (d), (e), and (f)) see subclass 41+.

(d) measuring means in addition to the pump, see subclasses 23+ and 71+.

(e) the combination between a pump and a significantly claimed container which forms the source of supply for the pump. A supply container is considered to be significantly claimed when any one or any combination of the following are recited: (1) the structural features of the container; (2) the mounting of the pump on a container closure, (3) particular relationships between the pump or its controls and the container, see appropriate subclasses such as 252+ and 372+.

(f) the provision of means in addition to pump structure and its operator to prevent the start of intake before the pump has reached the end of its discharge operation, see for example, subclass 34.

(g) discharge outlet (e. g. , nozzle) features significantly claimed, see for example, subclasses 74, 320, 322, 330, 378 and 379.

For the most part, the notes on dispensers and combinations of dispensers with other things, in which a pump is part of the dispenser organization, are placed in section 24. For pump structure, and for means to operate and control the same, including means to vary the pump capacity both with or without an indicator-

SEARCH CLASS:
103, Pumps.
137, Fluid Handling, subclasses 145 and 147+ for siphon starting pumps, and 565+for distribution systems including a pump.
230, Gas Pumps and Fans.
259, Agitating, subclasses 95+ for pump type agitators and 115, for agitators in which a cover thereof carries a pump.

10. DISCHARGE ASSISTANTS (e. g. , impellers, pumps, conveyors, movable trap chambers, etc.)

Devices combined with containers, or specially adapted for use with containers, and comprising means acting in addition to, or against, gravity for either removing material from a container, or which move, or tend to cause material to move, to or through a container outlet, have been herein designated generically "discharge assistants."

The discharge assistants as above comprise any means in either fluid or solid form, which moves or tends to urge material to move toward a discharge outlet or into or out of a trap chamber. Included are means to apply pressure fluids directly to the material to cause material motion, jarring, or vibrating means, pumps, pulsators, impellers, pushers, ejectors, vanes, rolls, screws, mechanical and fluid current conveyers of all kinds, followers (including followers moved only by atmospheric pressure), agitators functioning primarily to cause discharge, and devices for breaking material bridges or arches.

Movable trap chambers are devices which, when moved to one position, receive material from a supply and, when moved to another position, discharge the trapped material. These may act against or with gravity, sometimes offering no assistance to discharge except the physical separation of a portion of the material, and its confinement and control during downward movement, but they were found so closely related to non-gravity discharge assistants as to cause it to be advisable to associate the two in the classification (e. g. , many movable trap chambers were, in addition, mechanical conveyors).

The above character subject matter occur in numerous subclasses throughout the class, attention being particularly called to subclasses 92+ and 193 through 415, in which subclasses the discharge assistant constitutes the primary basis of classification.

Since, in most classes, dispensers and combinations thereof with other things are not separated on the basis of whether or not they have discharge assistants, notes on this type are not separately set out, and the notes to sections 9 and 24 should be consulted.

11. STATIONARY TRAPS -

Stationary material trapping devices auxiliary to a bulk supply are included in the class more particularly as follows- (1) containers having means for separating from the contained material a quantity less than the whole and maintaining the same in a position for access thereto by some removing agency; these may be barometric in type, or a mere wall or well to reduce the area of material exposed in the main container (e. g. , dispensing inkwells); (2) containers having receptacles or funnels for receiving or guiding the container contents, which are carried by, or form part of, the container and must be separated therefrom before use; (3) containers having detachable auxiliary chambers which receive part of the container contents while in place on the container, but which must be separated for discharge; (4) containers having auxiliary chambers which receive part of the container contents and discharge the same through tilting of the entire organization and which are provided with passages and baffles arranged to prevent additional material from entering the trap while the container is tilted; (5) containers having serial alternately opened valves so related as to perform a measuring function, the so-called predetermined-bulk stationary trap, and subcombinations disclosed as continuously connected to a source of supply.

These devices are related to the movable trap chambers and other discharge assistants treated in section 10.

Attention is particularly called to subclasses 424.5 through 457, and other subclasses, specified in the notes thereto, for this type of subject matter.

For related art in other classes -
SEARCH CLASS-

48, Gas, Heating and Illuminating, subclass 46+, for carbid feed devices for delivering measured charges.

73, Measuring and Testing, subclass 426, for measuring vessels.

119, Animal Husbandry, subclass 56, for feeding troughs with charge delivering means.

137, Fluid Handling, subclass 156+ for gas pressure discharge of feed traps to boilers; subclass 171+ for fluid separating traps; subclass 571+ for plural tanks or compartments, including traps, connected for serial flow; subclass 596 for stop and waste systems; subclass 602+ for multiple inlet with single outlet systems; subclass 608+ for systems having flow control means for plural passages; subclass 613+ for single flow path devices with serial valves which may comprise alternately seated inlet and outlet valves subclass 625+ for multiway valve units; and subclass 627.5 for sequentially closing and opening alternately seating flow controllers.

141, Fluent Material Handling, With Receiver or Receiver Coacting Means, appropriate subclasses.

158, Liquid and Gaseous Fuel Burners, subclass 84, for oil charge measuring for retort burner starters.

184, Lubrication, subclass 83, for gravity feed lubricators with measuring valves.

12. PATTERN OR SIFTER FORM OUTLET AND WITH MATERIAL SEPARATOR -

This class includes the combination of a dispenser with means to sift, strain, or filter the material dispensed as an incident to the dispensing operation (see subclass 189), and also dispensers having a pattern or sifter form of outlet (see subclasses 480, 564 and 565, and the notes thereto). Relative to sifters, strainers, or filters, combined with a dispenser, this class has this combinaton when the separating device is incidental to the dispenser, while the appropriate separating class has the separating means with means to deliver material thereto or therefrom. Relative to pattern or sifter forms of outlet, this class has the same where there is no structure specialized to, or intent of, separating, the foraminous nature of the outlet being for the purpose of holding back the bulk of the material while permitting the escape of limited quantities, or assisting to distribute the material delivered. For related art, see sections 12.5, 16 and 17 to the main class definition and -

SEARCH CLASS:

55, Gas Separation, subclass 490+ and those following for gas filters.

137, Fluid Handling, subclasses 140 and 544+ for fluid handling systems having means for separating solid material from the fluid, as strainers, filters, separators and sediment traps.

209, Classifying, Separating and Assorting Solids, particularly subclass 233+ for sifters.

210, Liquid Purification or Separation, subclass 348+ for filters, per se.

239, Fluid Sprinkling, Spraying and Diffusing, subclasses 374 and 548+, for pattern flow outlets for fluid spraying nozzles.

12.5. HAND MANIPULABLE SHAKERS -

Hand manipulable shaker type dispensers are those which are adapted to dispense non-free flowing granular material when it is kept in motion within the container, which is held in the hand and moved to and fro to shift the material. In these dispensers, the outlet is restricted to such an extent that bridging of the material occurs immediately after the material is initially brought into contact with the outlet, usually as a result of tilting the container as for gravity flow. Dispensing occurs only as a result of repeated contacts or impacts of the bulk of the material against the outlet area, as in the use of the ordinary condiment holder or salt shaker. If a discharge assistant or agitator is present, it is inertia operated only, having no actuator connected thereto.

Special provision for this subject matter is made in this class under the title Hand Manipulable Shaker Type in the following instances; subclass 142.1+, for those having plural sources of supply, e.g., combined salt and pepper shakers; 196.1+, for those having an inertia operated movable member which jars or has an impact effect, although it may also serve as a closure or discharge controller or as a discharge assistant; 457.5 for those having a generally U-shaped path through which material is shaken; and 480, for those having multiple diverse type outlet openings. Hand manipulable shakers having manually operated discharge assistants having been classified in the dispenser subclass appropriate to the type.

Where the outlet is of pattern form, distribution of the dispensed material is also effected. For pattern or sifter type dispensing outlets, see section 12 and the Search Classes thereunder.

For hand manipulable devices having material agitating or comminuting features see the search classes below.

SEARCH CLASS:

30, Cutlery, subclass 125, for hand manipulable shakers forming the handle of a cutlery implement.

241, Solid Material Comminution or Disintegration, subclass 168, for hand supported comminutors for condiments.

259, Agitating, appropriate subclasses for hand manipulated agitators, and see the main class definition of Class 259 for the line.

13. DIPPING AND SAMPLING-
This class has dipping type dispensers and dispensers related to samplers, see subclasses 576+, 356+ and 417+ and the notes to other subclasses in Class 222 for such art. For related art in other classes-

SEARCH CLASS-
30, Cutlery, subclass 324+, for spoons.
33, Geometrical Instruments, subclass 126.4, for sounding type of distance measuring means combined with sampling devices.
48, Gas, Heating and Illuminating, subclasses 41+ and 45, for dip type carbid feeders for acetylene generators.
73, Measuring and Testing, subclasses 354 for thermometers with sampling cup and 421+, for tollers and samplers.
107, Bread, Pastry and Confection Making, subclass 48, for ice-cream dishers.
141, Fluent Material Handling, With Receiver or Receiver Coacting Means, subclass 110+ for filling by immersion.
159, Concentrating Evaporators, subclass 30, for samplers for closed evaporating chambers.
166, Wells, subclass 162 and the subclasses there noted for well receptacles for receiving or depositing material in the well.
210, Liquid Purification or Separation, subclass 92 for filters with a test valve, subclass 198 for means to add treating material to a separator, and subclass 514+ for portable invertible separators.
294, Handling, Hand and Hoist-Line Implements, subclass 49+ for hand shovels and subclass 68+ for hoisting buckets adapted for dumping a load.

14. SHAPING MATERIAL BY EXTRUSION -
Where the outlet of a dispenser has a particular shape, so that the operation of the dispenser causes a plastic material to be delivered having a desired shape, classification is in the class appropriate to the plastic shaping involved.

SEARCH CLASS:
17, Butchering, subclasses 32 through 42, for meat briquetters and sausage stuffers.
18, Plastics, appropriate subclass for apparatus for extruding plastic materials.
25, Plastic Block and Earthenware Apparatus, appropriate subclasses, for die expressing, particularly subclasses 8, 11+ and 30+.
31, Dairy, particularly subclasses 8, 12-14, and 30, for butter and cheese cutters and butter working, with expressing.
72, Metal Deforming, subclass 253+, for die-expressing metal.
107, Bread, Pastry and Confection Making, subclasses 14 and 52.
164, Metal Founding, subclass 174 for die expressing apparatus for sand molds or cores and subclass 273+ for continuous metal casting apparatus.
264, Plastic and Non-Metallic Article Shaping or Treating: Processes, appropriate subclasses for processes of shaping or molding of plastic materials within the class definition. See particularly subclass 176+ for formation of indefinite length or continuous articles by extrusion, and subclass 299+ for casting or mold or die casting for processes not more specifically provided for above, therein.

15. FURNACE CHARGING AND DISCHARGING -
This class has dispensers per se, for fuel and other materials which are intended for delivery to furnaces. Where features are claimed that specialize the apparatus to charging or discharging a furnace, classification is in some other class-

SEARCH CLASS:
137, Fluid Handling, subclasses 249+ and 309+ for reversing valves for regenerative furnaces.
214, Material or Article Handling, subclass 18+, and see the notes thereto.

16. SANDING OR ABRADING (see also sections 12 and 17) -
SEARCH CLASS-
25, Plastic Block and Earthenware Apparatus, subclass 115+, for devices for applying sand to the surface of bricks and to molds.
51, Abrading, particularly subclass 8+, for sandblast apparatus, subclasses 263+ for abradant suppliers, 267, for wetting grindstones, 318 and 319+, for sandblasting processes.
122, Liquid Heaters and Vaporizers, subclass 395, for cleaning such apparatus by sand blast.
164, Metal Founding, subclass 159+ for sand mold forming apparatus and particularly subclasses 192 to 202 for means for delivering sand to the molding device.
239, Fluid Sprinkling, Spraying and Diffusing, subclass 650+ for a vehicular type road sander comprising a container for non-fluid material and means to scatter or strew the material over an extended area.
291, Track Sanders.

17. THROWERS, SPRAYERS, SCATTERERS, DUSTERS (see also sections 12, 16) -
SEARCH CLASS-
34, Drying and Gas or Vapor Contact With Solids, subclass 59, for combinations with a rotary scattering member.

110, Furnaces, subclass 104+, for fuel feeders which blow the fuel into a furnace.

118, Coating Apparatus, subclass 300+, for coating apparatus in which the coating material is projected, flung, sprayed or dripped on the work.

119, Animal Husbandry, subclass 159, for anti-vermin dust scatterers.

124, Mechanical Guns and Projectors, particularly subclass 4+, for centrifugal guns.

198, Conveyers, Power-Driven, subclasses 6 and 128 for such conveyers involving blowing or throwing.

209, Classifying, Separating and Assorting Solids, subclass 115+ for assorters involving throwing.

239, Fluid Sprinkling, Spraying and Diffusing, appropriate subclasses for devices which project streams of fluid (as fireman's nozzles) and for sprinkling liquids; subclass 650+ for a container for non-fluid material and means to scatter or strew the material over an extended area, the material being of any type (e.g., fertilizer, seed, insecticide, etc.). Liquid dispensers not having the special features for Class 239 are in Class 222.

302, Conveyers-Fluid Current, particularly subclasses 19, 38 and 61, for such conveyers involving throwing or scattering.

18. VEHICLE LOADING AND UNLOADING - This class has some vehicular dispensers, see subclass 176+, but has no other characters of vehicle loading and unloading.

SEARCH CLASS-

214, Material or Article Handling, and see the notes to the main class definition and the notes to the various loading and unloading subclasses.

19. PUNCTURING INJECTORS AND OTHER NOZZLES, SPOUTS, AND POURING DEVICES- The class includes container structures in combination with one or more dispensing outlet structures, with or without other openings (as filling or vent openings), or dispensing outlet structures, per se, and such structures formed to cut or punch other things, or combined with a cutter or punch for forming openings in the receiver of the material dispensed.

Dispensing outlet structures comprise the following features or any combination therebetween: (1) material guide means (as nozzles, spouts, pouring lips, et cetera), i. e., any means specialized to guiding the material being discharged and located either on the interior or exterior of the container or both. Such structure must be in addition to mere container openings with or without surrounding flanges or necks to receive closures. Such guide means may be stationary relative to the container or movably related thereto; (2) non-guiding type outlets with flow controllers (e. g., valves).

Additional openings for non-dispensing purposes, such as filling openings and vents, may be included, and also closures (as distinguished from flow controllers) for any opening, means for connecting the various elements together or means for mounting or operating movable parts. Cutter or punch combinations are in subclass 80+.

Patents claiming only the container in combination with the features above outlined (excepting cutter or punch features) are in this class starting with subclass 476 and including all following subclasses. Such features in combination with other features are in the preceding subclasses, for example, the combination with a casing or support for the dispenser is in subclass 173+, with discharge assistant in subclass 251+, with container handle or handgrip in subclass 465+.

Containers in combination with such features are found in substantially all classes which involve handling of material in bulk, and in substantially all classes which involve container structure, classified on special bases and features in addition to the dispensing features. For such devices for purposes other than dispensing, and for such devices that are for dispensing, but are specialized to particular uses, see sections 22 and 23 for restricters and valves, and -

SEARCH CLASS-

15, Brushing, Scrubbing and General Cleaning, subclasses 322 and 415+, for air blast and suction cleaner nozzles.

17, Butchering, subclass 41+, for sausage stuffer nozzles, and subclass 42. 1, for larding pins that puncture and inject.

21, Preserving, Disinfecting, and Sterilizing, subclass 73, for devices that inject preservatives into wood.

27, Undertaking, subclass 24, for embalming injectors.

47, Plant Husbandry, subclass 11, for sap spouts and gutters for gathering sap from pine and rubber trees, subclass 48. 5, for irrigators or fertilizers of container or cartridge form which are buried in the earth, usually discharging their contents over a period of time, 51 and 52+, for spouts for conveying sap from other trees, and 57. 5, for miscellaneous injection devices.

51, Abrading, subclass 11, for sandblast nozzles.

56, Harvesters, subclass 32, for pneumatic cotton picker nozzles.

61, Hydraulic and Earth Engineering, subclass 72. 1+, for a process or apparatus for laying pipe or cable into a submerged or subterranean location.

68, Textiles, Fluid Treating Apparatus, subclass 201, for needle type liquid injectors.

73, Measuring and Testing, subclasses 211 and 215+, for pressure differential type meter nozzles and weirs, respectively.

81, Tools, subclass 15. 6, for cement injectors for resilient tires.

99, Foods and Beverages, subclass 256+, for hollow injecting needles for pickling foods.

103, Pumps, subclass 278 for jet pump nozzles.

104, Railways, subclass 11, for tampers with pneumatic injector.

111, Planting, appropriate subclass for forming openings in the earth, depositing material in the openings and usually covering over with earth, and including in subclass 6+, the depositing of liquid or gases.

122, Liquid Heaters and Vaporizers, subclass 405, for washout nozzles for cleaning boilers.

128, Surgery, subclasses 184, for gas injectors and ejectors, 214 and 215+, for medicinal devices having hollow needles for injecting medicines into the living body, 239+, for syringe nozzles and 252, for nipples.

137, Fluid Handling, subclasses 119+ and 610+ for branched downspouts with flow deflectors; subclass 318 for devices for tapping a pipe or tank under pressure by forming an aperture therein under conditions which prevent loss of fluid; subclass 614.02+ for separable flow path sections with a coupling operated valve in each wherein one section may be of the barrel bushing type and the other section a spout; subclass 615+ for distribution systems having swinging or articulated flow conduits; and subclass 801 for nozzles and spouts per se.

156, Adhesive Bonding and Miscellaneous Chemical Manufacture, appropriate subclasses for processes and apparatus for laminating in general and see especially subclass 145+ for filling hollow laminae with fluent material.

158, Liquid and Gaseous Fuel Burners, for nozzles specialized for burning fuel, see particularly the spray burners in subclass 73+, and see (1) Note in the class definition of that class for the line with Class 239, Fluid Sprinkling, Spraying and Diffusing, in regard to burners.

193, Conveyers-Chutes, Skids, Guides and Ways, subclass 2+, for chutes.

215, Bottles and Jars, subclasses 31+ and 73+, for necks and tube form closures.

217, Wooden Receptacles, subclass 98+, for barrel bungs.

230, Gas Pumps and Fans, subclass 112 for jet pump nozzles.

239, Fluid Sprinkling, Spraying and Diffusing, subclass 271 for spraying devices with attached penetrating means; subclass 309 for seal puncturing means for providing a discharge opening in a supply holder; subclass 445 for nozzles having means for selectively delivering a high or low pressure stream of fluid; other appropriate subclasses for desired nozzle structure per se.

248, Supports, subclass 75+ for hose and/or nozzle supports.

251, Valves and Valve Actuation, subclass 149+ for separable flow path sections with a coupling operated valve in one wherein one section may be of the barrel bushing type and the other section a spout; and subclass 155 for valve nozzles and spouts.

253, Motor-Fluid, for turbine nozzles.

259, Agitating, subclass 18+, and particularly subclass 24, for nozzles or faucets having mechanical agitating structure combined therewith.

285, Pipe Joints or Couplings, subclass 128+ for a joint between a pipe or cable and box, subclass 158+ for a pipe or rod-to-pipe-to-plate coupling, and subclass 189+ for an end-to-plate coupling.

291, Track Sanders, subclass 46+, for sand delivery nozzles.

302, Conveyers-Fluid Current, subclasses 58 and 63, for nozzles.

317, Electricity, subclass 2 for nozzles and spouts with means to discharge static charges.

20. CONTAINER OR RECEPTACLE STRUCTURE- This class does not have receptacle or container structure unless combined with dispensing features. Collapsibility, per se, is considered to be a dispensing feature, relative to structures disclosed as dispensing containers. For receptacles, containers and tubular conduit structures, not involving dispensing features:

SEARCH CLASS-

138, Pipes and Tubular Conduits, appropriate subclasses for tubular conduit structures not disclosed as dispensing containers and not including dispensing features. For a statement of the line between Class 138 and Class 222 see the reference to Class 222 in the SEARCH CLASS note to the class definition of Class 138.

206, Special Receptacles and Packages, and see the notes for related art.

220, Metallic Receptacles, and see the notes for related art.

229, Paper Receptacles, and see the Notes for related art.

21. CLOSURES - Mere closure structures for containers and other devices having openings, not claimed in combination with a nozzle, spout, pouring lip, discharge assistant, or other dispensing feature, and also closures for spouts where no features of spout structure are claimed other than those necessary for the mounting and operation of the closure, are not in Class 222, but in other appropriate classes, for which -

SEARCH CLASS-

160, Closures, Partitions and Panels, Flexible and Portable, for flexible closures and see the places set forth in the notes thereto.

220, Metallic Receptacles, subclass 24+, and the places set forth in the notes thereto for rigid closures.

22. RESTRICTERS, PIPE AND TUBULAR CONDUIT STRUCTURES -

This class has neither flow restrictors except those in the interior of dispenser supply containers, provided for in subclasses 547 and 564, nor pipe and tubular conduit structures, per se. For such subject matter -

SEARCH CLASS:

137, Fluid Handling, subclass 801 for restrictors comprised in outlets, nozzles or spouts.

138, Pipes and Tubular Conduits, and see the notes thereto.

251, Valves and Valve Actuation, subclasses 117 with restrictor in parallel to main valve, and 118+ for serial valves and flow restrictors.

23. VALVES AND VALVE ACTUATION -

This class has both single and plural valves and their actuating means (1) when claimed in combination with a dispenser, (2) when arranged to control inlet from a bulk supply into a trap chamber and discharge of the trapped material from such chamber, and (3) when claimed in combination with receptacle structure so as to control and regulate discharge of the container contents. For valves and valve actuating means not involving such combinations-

SEARCH CLASS:

251, Valves and Valve Actuation, and see the places set forth in the notes thereto.

24. MISCELLANEOUS NOTES AND INDEX TO ALL NOTES TO THE MAIN CLASS DEFINITION

4. Baths, Closets, Sinks and Spittoons, Sec. 8.
6. Bee Culture, subclass 5 for bee feeders.
9. Boats, Buoys and Aquatic Devices, Sec. 4, subclass 8.5, having buoys with oil distributors.
12. Boot and Shoe Making, for manufacturing apparatus with dispensing means, and dispensers specially designed for use in connection with boot and shoe manufacture, e.g., subclasses 41.3, for pliabilizing soles, 79.5, waxing and polishing and 18.2 shoe filling.
15. Brushing, Scrubbing, and General Cleaning, Sec. 4, 7, 8, 19, Sec. 8 stating the general line.
17. Butchering, Sec. 14, 19.
18. Plastics, Sec. 8, 14, subclass 30 having molding device chargers.
19. Textiles, Fiber Preparation, Sec. 4, subclass 200+ having fiber feeding and cleaning.
21. Preserving, Disinfecting and Sterilizing, sec. 4, 19.
23. Chemistry, sec. 4, 8, 13.
25. Plastic Block and Earthenware Apparatus, sec. 14, 16; subclass 103 having chargers for block presses.
27. Undertaking, sec. 19.
30. Cutlery, Sec. 12.5, 13, subclass 41+ for razors combined with means to dispense fluent material such as water or lather.
31. Dairy, sec. 14.
33. Geometrical Instruments, sec. 13; and see appropriate subclasses for geometrical instruments with means for dispensing fluids operable in connection with the use of the instruments, e.g., subclasses 34+, for straight line scribers using ink, 205+, for recording, bore hole type direction indicators.
34. Drying and Gas or Vapor Contact With Solids, sec. 4, 7, 17 having apparatus having features specially designed for the drying of solid material, or for contacting solid material with gases or vapors for purposes other than mere agitation, and such apparatus combined with feeding and/or discharging means, dispensers, per se, being in class 222, or other appropriate dispenser classification.
38. Textiles, Ironing or Smoothing, sec. 4.
40. Card, Picture and Sign Exhibiting, sec. 4.
43. Fishing, Trapping and Vermin Destroying, sec. 4, 17
46. Amusement Devices, Toys, sec. 4, subclass 6+ having soap bubble devices.
47. Plant Husbandry, sec. 19.
48. Gas, Heating and Illuminating, sec. 4, 8, 11, 13; and see subclasses 4+ and 38+ for acetylene generator water and carbid feeds, respectively.
51. Abrading, sec. 4, 16, 19.
52. Static Structures, e.g., Buildings, subclass 192+ for specific structure of a fluent material container with a single material port, e.g., outlet at a hopper bottom.
53. Package Making, subclasses 2 and 3+ for processes, and subclasses 1 and 48-263, especially subclass 147+ for apparatus to feed the contents to and from a machine to form a package.
55. Gas Separation, Sec. 4, 12.
56. Harvesters, Sec. 7, 19.
62. Refrigeration, Sec. 4.
65. Glass Manufacturing, subclass 324+ for molten glass dispensers, per se.
67. Illuminating Burners, Sec. 7; subclass 81+ having oil burner fonts.
68. Textiles, Fluid Treating Apparatus, Sec. 4, 7, 19; subclass 210 having loaders, unloaders and dumpers for such machines.

72. Metal Deforming, sec. 14.

73. Measuring and Testing, sec. 6, 11, 13, 19, sec. 6 stating the general line on volume or rate of flow meters. See the definition of subclass 426 in class 73, for the line between this class (222) and the measuring vessels provided for in class 73.

81. Tools, sec. 19, for some combinations with dispensing means, e.g., subclasses 2 and 15.5+, dispensers per se, being in subclass 15.6 when specially designed for injecting cement into tires.

93. Paper Manufactures, see subclasses 66 and 68, for devices for dispensing adhesives.

99. Foods and Beverages, sec. 19, subclass 234+ having apparatus specialized to treating food and beverage materials which include dispensing features, dispensers, per se, being in class 222 or other appropriate dispenser classification. Subclass 275, Class 99, as the residual beverage making apparatus subclass, has apparatus for carbonating a liquid by specific contact means, combined with means for adding flavoring material to form a beverage.

100. Presses, subclass 215+ for presses not elsewhere classified having means for feeding material to the press, and see the Notes thereto for other press structures having means for feeding material thereto, and see subclass 104+ for presses provided with drain means for expressed liquids.

101. Printing, subclass 335+ having inkers.

102. Ammunition and Explosive Devices, sec. 4, appropriate subclasses having oil, gas, smoke, incendiary material containing devices.

103. Pumps, sec. 9, 19.

104. Railways, sec. 7, 19.

107. Bread, Pastry and Confection Making, sec. 13, 14, subclasses 27+ and 52 having depositing apparatus and 43 having sizing and salting apparatus.

109. Safes, Bank Protection and Related Devices, sec. 4, 7; subclasses 20 and 29 having fluent material dispensing combinations, and 46 having movable safes or compartments with dumping mechanism.

110. Furnaces, sec. 4, 17; and see sec, 15 for a general statement on furnace charging and discharging.

111. Planting, sec. 4, 19.

114. Ships, sec. 7; subclasses 86, 224 and 232+ for caulking and seaming and oil distributing apparatus.

118. Coating Apparatus, 7, 8, 17, Section 8, stating the general line.

119. Animal Husbandry, sec. 11, 17; subclasses 10, 18, 51+ and 72+ having feeding and watering devices.

122. Liquid Heaters and Vaporizers, sec. 16, 19; subclasses 451+ having feeders.

124. Mechanical Guns and Projectors, sec 17.

126. Stoves and Furnaces, sec. 7.

128. Surgery, sec. 4, 19; subclass 260+, having depositors and applicators.

130. Threshing, subclass 33 for feeders for shellers and huskers.

131. Tobacco, subclasses 38+, 108+, and 180+, having tobacco feeders.

132. Toilet, Sec. 5 (I), subclass 112+ for liquid applying combs, and subclass 74.5 for manicuring devices with fluent material feed.

134. Cleaning and Liquid Contact With Solids, sec. 7, 8.

136. Batteries, subclass 162, for electrolyte feeders.

137. Fluid Handling, Sections 4, 7, 8, 9, 11, 12, 15, 19, 22: this class is the generic class for the handling of fluids, and has miscellaneous distributing systems, valve actuation, fluid handling tanks, etc. Since many of the systems of the two classes are analogous or identical and most of the subcombinations are freely interchangeable, the search fields in the two classes must always be studied and compared.

138. Pipes and Tubular Conduits, sec. 20 and 22.

141. Fluent Material Handling, With Receiver or Receiver Coacting Means, Secs. 4, 7, 8, 11, 13; subclass 331+ having funnels and subclass 65.

143. Wood Sawing, subclass 158 for saw cleaners and oilers.

145. Woodworking Tools, subclass 18 for lubricating attachments.

146. Vegetable and Meat Cutters and Comminutors, for combinations of such apparatus with feeding and/or discharging means, dispensers, per se, being in class 222 or other appropriate dispenser classification.

152. Resilient Tires and Wheels, sec. 4

156. Adhesive Bonding and Miscellaneous Chemical Manufacture, sec. 19.

158. Liquid and Gaseous Fuel Burners, sec. 7, 11, 19; subclass 36+ having fuel feeding devices and systems for liquid fuel burners.

159. Concentrating Evaporators, sec. 13, subclass 43 having fluid feed or discharge devices.

160. Closures, Partitions and Panels, Flexible and Portable, Sec. 21.

162. Paper Making and Fiber Liberation, subclass 407+ for mold charging means employed in the making of a fibrous article from a liquid suspension of fibers.

164. Metal Founding, subclasses 192+, 198+ and 200+ for apparatus for charging mold forming materials into a flask, subclass 303+ for apparatus for injecting metal into a mold and subclass 335+ for metal casting apparatus including a ladle or crucible type metal receptacle.

166. Wells, sec. 13.
169. Fire-Extinguishers, sec. 8; this class having fluid systems, automatic valves, tanks, portable receptacles, et cetera, having dispensing features specially adapted for the purposes of the class.

174. Electricity, Conductors and Insulators, subclass 8+ having fluid feeding combinations.
177. Weighing Scales, sec. 8.
178. Telegraphy, subclass 96 for inking devices for code receivers.

184. Lubrication, sec. 7, 11; see particularly subclass 14+ for dispensing devices specially adapted for structural association with a bearing that receives the lubricant.
186. Store Service.

192. Clutches and Power-Stop Control, subclass 125 for stop mechanism controlled by material fed.
193. Conveyers, Chutes, Skids, Guides and Ways, sec. 19.
194. Check-Controlled Apparatus and see particularly the "fluid delivery" subclasses.

196. Mineral Oils: Apparatus, subclass 135 for feeders for vaporizing apparatus.
197. Typewriting Machines, subclasses 24, 150 and 171 having inking devices.
198. Conveyers, Power-Driven, 17; the line with Class 222 being stated in the definition of 198-53.

201. Distillation: Processes, Thermolytic, subclass 39 for a process including quenching the char with an inert gas.
202. Distillation: Apparatus, sec. 4; subclasses 95, 227+ and 253 for quenchers.
204. Chemistry, Electrical and Wave Energy, sec. 4; subclasses 245+, 255-258, 263+, 269+, and 275+ for electrolytic cell feeders.
206. Special Receptacles and Packages, sec. 4, 20; see also subclasses .5 and 56+ for other dispensers.

209. Classifying, Separating, and Assorting Solids, sec. 4, 12, 17, sec. 12 stating the general line.
210. Liquid Purification or Separation, Sec. 12, 13; subclass 198+ for, inter alia, means for dispensing materials in combination with a Class 210 separator, and subclass 523+ for mechanical means for removing a constituent from a gravitational separator.

214. Material or Article Handling, sec. 7, 8, 15, 18; this being the generic to class 222.
215. Bottles and Jars, sec. 19; and see all subclasses classified on a dispensing basis.
217. Wooden Receptacles, sec. 19

218. Button, Eyelet and Rivet Setting, sec. 5 (II).
220. Metallic Receptacles, sec. 4, 20, 21.
221. Article Dispensing, Sec. 5.
223. Apparel Apparatus, sec. 4.
224. Package and Article Carriers, sec. 5 (II).

226. Advancing Material of Indeterminate-Length, appropriate subclasses for methods of, and apparatus for, feeding material without utilizing the leading or trailing ends to effect movement of the material.

228. Metal Fusion-Bonding Apparatus, subclasses 33+ and 52 for fusion-bonding apparatus having dispensing means.

229. Paper Receptacles, sec. 20, subclasses 7, 11, 17, 20 and 24+, providing for dispensing types.
230. Gas Pumps and Fans, sec. 4, 9, 19.
232. Deposit and Collection Receptacles, for receptacles (such as ballot fare and letter boxes, etc.) specially designed to have one person deposit and another collect the deposited article.

235. Registers, Sec. 6.
239. Fluid Sprinkling, Spraying and Diffusing, Sections 12, 17 and 19; the line being stated in the class definition of Class 239.
241. Solid Material Comminution or Disintegration, for comminuting processes and apparatus and such steps or means combined with feeding and/or discharging, dispensers, per se, being in Class 222 or other appropriate dispenser classification. See Sec. 9 of the main class definition of Class 241, for a further statement of the line. See also Sec. 12.5 of the class definition of Class 222.
244. Aeronautics, Sec. 4.

248. Supports, sec. 19, subclasses 128+ and 146+, for receptacle stands, 196, for receptacle easels 311+, for receptacle holding brackets, and 318, for suspended supports for receptacles or bowls.
251. Valves and Valve Actuation, sec. 19, 23.

253. Motors, Fluid Current, sec. 19.
259. Agitating, sec. 4, 9, 12.5, 19; the line with class 222 is stated in the main class definition of class 259.
261. Gas and Liquid Contact Apparatus, sec. 4; and see appropriate subclasses for feeding and discharging liquids to and from discharge apparatus.

264. Plastic and Non-Metallic Article Shaping or Treating: Processes, sec. 8, 14.

272. Amusement and Exercising Devices, subclass 15, for rain, snow and fire illusions.

275. Scattering Unloaders, sec. 17.
285. Pipe Joints or Couplings, sec. 19.
291. Track Sanders, secs. 8, 16, 19.
294. Handling, Hand and Hoist-Line Implements, sec. 13; subclass 68+, having the hoisting bucket type of implement with discharging means.
296. Land Vehicles, Bodies and Tops, sec. 7.

302. Conveyers, Fluid Current, sec. 4, 7, 17, 19, the line being stated in the class definition of this class.

308. Machine Elements, Bearings and Guides, the "lubricating" subclasses for lubricant dispensers claimed in combination with significantly recited bearing or guide structure.
314. Electric Lamp and Discharge Devices, Consumable Electrodes, subclass 21+ for combinations with means for feeding materials to the discharge space.

315. Electric Lamp and Discharge Devices, Systems, subclass 111 for combinations with means to feed fluent materials to the discharge space.
317. Electricity, sec. 19.
346. Recorders, sec. 6.

401. Coating Implements with Material Supply, appropriate subclasses, for the combination of a coating tool including dispensing means which supplies coating material either to the tool or to a work surface for a spreading operation by the tool (see particularly subclasses 136 and 137+, for the latter).